

- 4. In general terms, briefly discuss the construction and operational energy requirements and conservation potential of the various alternatives under consideration. Indicate whether the savings in operational energy are greater than the energy required to construct the facility.**

Highway energy consumption manifests itself in the raw materials and fuels used to construct, operate, and maintain a highway facility. Construction energy is comprised of the raw materials and equipment necessary to build and maintain the highway. Fuel consumption is affected by the type of vehicle using the roadway, the travel speed, geometry, congestion, and condition.

For Sections 1 and 2 of the WIS 65 corridor, the energy required for construction of the preferred alternatives will be greater than a no-build alternative. However, the purpose of this Environmental Assessment is to preserve a corridor for future WIS 65 expansion, so a no-build alternative was not considered.

The operational energy required for the preferred alternatives will be less than that required for the existing WIS 65 because of reduced congestion and increased safety.

Over the design life of the facility, savings in operational energy is anticipated to offset the energy required to construct the preferred alternatives.